

Magensa Web Services

Remote Services v2 EMV Tag Operations

Programmer's Reference

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Table 0.1 - Revisions

Rev Number	Date	By	Notes
10	3/16/2015	Donnie James Rebecca Robinson	Initial release.
11	4/9/2015	Andy Deignan	Added Input Validation Errors

NOTICE

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Purpose of the document

The purpose of this document is to provide a description of how to call operations of the Magensa Remote Services web service for getting and setting EMV Tags for the DynaPro family of products.

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1 EMVTags Operations

1.1 GetEMVCommands

A command used to parse TLV commands.

1.1.1.1 Input Properties

Property (*)	Value	Value Description
CustomerCode *	<string>	Customer code.
Username *	<string>	The User Identification credential created and assigned by MagTek.
Password *	<string>	The password for the credential.
BillingLabel	<string>	Billing label.
CustomerTransactionId	<string>	Customer transaction ID.
KSN *	<string>	Key Serial Number of the reader.
KeyName *	<string>	Key name.
SerialNumber *	<string>	Device serial number.
XMLString *	<string>	The EMV TLV commands in XML format. XML String must be inserted as CDATA Example: <![CDATA[XML STRING]]>

Note: * = Required

1.1.2 Output Properties

Property	Value	Value Description
CustomerTransactionId	<string>	Customer transaction ID.
MagTranId	<string>	Magensa assigned unique transaction ID in GUID form.
Description	<string>	Description for the command name.
ExecutionTypeEnum	<string>	The Execution Type can be one of the following values: ALL, KSN, MUT
ID	<string>	Command ID.
Name	<string>	EMV command name.
Value	<string>	EMV TLV value.

GetEMVCommands Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:v2="http://www.magensa.net/RemoteServices/v2/"
xmlns:rem="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core">
  <soapenv:Header/>
  <soapenv:Body>
    <v2:GetEMVCommands>
      <v2:request>
        <rem:Authentication>
          <rem:BillingLabel>label</rem:BillingLabel>
          <rem:CustomerCode>123</rem:CustomerCode>
          <rem>Password>Password</rem>Password>
          <rem:Username>Username</rem:Username>
        </rem:Authentication>
        <rem:CustomerTransactionId>456</rem:CustomerTransactionId>
        <rem:KSN>9010010B28C0DC000001</rem:KSN>
        <rem:KeyName>L1MK0000004</rem:KeyName>
        <rem:SerialNumber>B28C0DC</rem:SerialNumber>
      </v2:request>
    </v2:GetEMVCommands>
  </soapenv:Body>
</soapenv:Envelope>
```

EMVTags Operations

```
<rem:XMLString> <![CDATA[<?xml version="1.0" encoding="utf-8" ?> <TAGconfig> <Slots>
<SlotApplTag> <SlotNum>0</SlotNum> <ApplTags> <ApplTag> <Tag>84</Tag> <TagLen>7</TagLen>
<TagValue>A0000000031010</TagValue> </ApplTag> <ApplTag> <Tag>97</Tag> <TagLen>03</TagLen>
<TagValue>5F2403</TagValue> </ApplTag> <ApplTag> <Tag>9F01</Tag> <TagLen>06</TagLen>
<TagValue>000000000001</TagValue> </ApplTag> <ApplTag> <Tag>9F06</Tag> <TagLen>07</TagLen>
<TagValue>A0000000031010</TagValue> </ApplTag> <ApplTag> <Tag>9F1B</Tag> <TagLen>04</TagLen>
<TagValue>000003E8</TagValue> </ApplTag> <ApplTag> <Tag>9F49</Tag> <TagLen>0A</TagLen>
<TagValue>9F37045A085F340A9A03</TagValue> </ApplTag> <ApplTag> <Tag>DFDF23</Tag>
<TagLen>01</TagLen> <TagValue>01</TagValue> </ApplTag> <ApplTag> <Tag>9F09</Tag>
<TagLen>02</TagLen> <TagValue>008C</TagValue> </ApplTag> <ApplTag> <Tag>DFDF70</Tag>
<TagLen>05</TagLen> <TagValue>0000000000</TagValue> </ApplTag> <ApplTag> <Tag>DFDF71</Tag>
<TagLen>05</TagLen> <TagValue>0000000000</TagValue> </ApplTag> <ApplTag> <Tag>DFDF72</Tag>
<TagLen>05</TagLen> <TagValue>0040000000</TagValue> </ApplTag> </ApplTags> </SlotApplTag>
<SlotApplTag> <SlotNum>1</SlotNum> <ApplTags> <ApplTag> <Tag>84</Tag> <TagLen>7</TagLen>
<TagValue>A0000000041010</TagValue> </ApplTag> <ApplTag> <Tag>97</Tag> <TagLen>03</TagLen>
<TagValue>5F2403</TagValue> </ApplTag> <ApplTag> <Tag>9F01</Tag> <TagLen>06</TagLen>
<TagValue>000000000001</TagValue> </ApplTag> <ApplTag> <Tag>9F06</Tag> <TagLen>07</TagLen>
<TagValue>A0000000041010</TagValue> </ApplTag> <ApplTag> <Tag>9F1B</Tag> <TagLen>04</TagLen>
<TagValue>000003E8</TagValue> </ApplTag> <ApplTag> <Tag>9F49</Tag> <TagLen>0A</TagLen>
<TagValue>9F37045A085F340A9A03</TagValue> </ApplTag> <ApplTag> <Tag>DFDF23</Tag>
<TagLen>01</TagLen> <TagValue>01</TagValue> </ApplTag> <ApplTag> <Tag>9F09</Tag>
<TagLen>02</TagLen> <TagValue>008C</TagValue> </ApplTag> <ApplTag> <Tag>DFDF70</Tag>
<TagLen>05</TagLen> <TagValue>0000000000</TagValue> </ApplTag> <ApplTag> <Tag>DFDF71</Tag>
<TagLen>05</TagLen> <TagValue>0000000000</TagValue> </ApplTag> <ApplTag> <Tag>DFDF72</Tag>
<TagLen>05</TagLen> <TagValue>0040000000</TagValue> </ApplTag> </ApplTags> </SlotApplTag>
</Slots> <ReaderTags> <ReaderTag> <Tag>DFDF02</Tag> <TagLen>3D</TagLen>
<TagValue>4F575A828A8E959A9B9C5F245F255F2A5F349F029F039F069F079F089F099F0D9F0E9F0F9F109F1A9F269F2
79F339F349F359F369F379F40DFDF53F5F4</TagValue> </ReaderTag> <ReaderTag> <Tag>DFDF14</Tag>
<TagLen>04</TagLen> <TagValue>00001770</TagValue> </ReaderTag> <ReaderTag> <Tag>DFDF17</Tag>
<TagLen>43</TagLen>
<TagValue>4F575A828A8E959A9B9C5F245F255F2A5F349F029F039F069F079F089F099F0D9F0E9F0F9F109F1A9F269F2
79F339F349F359F369F379F40DFDF70DFDF71DFDF729F5B</TagValue> </ReaderTag> <ReaderTag>
<Tag>5F2A</Tag> <TagLen>2</TagLen> <TagValue>0840</TagValue> </ReaderTag> <ReaderTag>
<Tag>5F36</Tag> <TagLen>1</TagLen> <TagValue>02</TagValue> </ReaderTag> <ReaderTag>
<Tag>9F1A</Tag> <TagLen>2</TagLen> <TagValue>0840</TagValue> </ReaderTag> </ReaderTags>
</TAGconfig> ]]> </rem:XMLString>
</v2:request>
</v2:GetEMVCommands>
</soapenv:Body>
</soapenv:Envelope>
```

GetEMVCommands Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEMVCommandsResponse xmlns="http://www.magensa.net/RemoteServices/v2/">
      <GetEMVCommandsResult
xmlns:a="http://schemas.datacontract.org/2004/07/RemoteServicesv2.Core"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:CustomerTransactionId>456</a:CustomerTransactionId>
        <a:MagTranId>bd372313-28b5-4a4f-87d3-6546052231b6</a:MagTranId>
        <a:Commands>
          <a:Command>
            <a:Description>Reader Tag Command</a:Description>
            <a:ExecutionTypeEnum>ALL</a:ExecutionTypeEnum>
            <a:ID>0</a:ID>
            <a:Name>EMVTags</a:Name>
          </a:Command>
          <a:Command>
            <a:Description>Application Tag Command for Slot 0</a:Description>
            <a:ExecutionTypeEnum>ALL</a:ExecutionTypeEnum>
            <a:ID>0</a:ID>
            <a:Name>EMVTags</a:Name>
          </a:Command>
        </a:Commands>
        <a:Value>00B7F98200B3DFDF550102DFDF25080B28C0DC0000000FA82009EDFDF023D4F575A828A8E959A9B9C5F245F
255F2A5F349F029F039F069F079F089F099F0D9F0E9F0F9F109F1A9F269F279F339F349F359F369F379F40DFDF53F5F4D
FDF140400001770DFDF17434F575A828A8E959A9B9C5F245F255F2A5F349F029F039F069F079F089F099F0D9F0E9F0F9F
109F1A9F269F279F339F349F359F369F379F40DFDF70DFDF71DFDF729F5B5F2A0208405F3601029F1A02084000000000
00000EFC48A8E</a:Value>
      </a:Command>
    </a:Command>
  </s:Body>
</s:Envelope>
<a:Value>0073F982006FDFDF550102DFDF25080B28C0DC0000000FA82005A8407A000000003101097035F24039F0106
```

EMVTags Operations

```
0000000000019F0607A00000000310109F1B04000003E89F490A9F37045A085F340A9A03DFDF2301019F0902008CDFDF7
005000000000DFDF710500000000DFDF72050040000000000000FCCD1177</a:Value>
  </a:Command>
  <a:Command>
    <a:Description>Application Tag Command for Slot 1</a:Description>
    <a:ExecutionTypeEnum>ALL</a:ExecutionTypeEnum>
    <a:ID>0</a:ID>
    <a:Name>EMVTags</a:Name>

<a:Value>0073F982006FDFDF550102DFDF25080B28C0DC00000000FA82005A8407A000000004101097035F24039F0106
0000000000019F0607A00000000410109F1B04000003E89F490A9F37045A085F340A9A03DFDF2301019F0902008CDFDF7
005000000000DFDF710500000000DFDF72050040000000000000C2A5BE97</a:Value>
  </a:Command>
</a:Commands>
</GetEMVCommandsResult>
</GetEMVCommandsResponse>
</s:Body>
</s:Envelope>
```

Status Codes and Messages

2 Status Codes and Messages

Status Codes and Messages returned by Magensa for EMVTags Operations.

2.1 Internal errors

Code	StatusMsg	Notes
5000	Unknown Error	

2.2 Input Validation errors

Code	StatusMsg	Notes
602	KSN is required	
603	CustomerCode is required	
604	Username is required	
605	Password is required	
607	KSN is not valid	
609	KeyName is required	
615	CustomerTransactionID is not valid	
616	BillingLabel is not valid	
621	XMLString is required	
622	SerialNumber is required	
623	SerialNumber is not valid	Value was not HEX or too long.
701	Access Denied	Returned when user cannot be authenticated or authorized for any reason such as invalid username, invalid password, or account locked.
702	Device Not Allowed	